99S 模式生物 Syllabus

Week	Date	Teacher	TA	Topic	Content
1	2/21	彭明德	芷微 怡娟	Introduction and organization	1.Introduction to this laboratory course 2.Grouping and cleaning the lab.
2	2/28			X	和平紀念日
3	3/7	張壯榮	芷微 怡娟	Yeast (I)	Yeast fermentation and sporulation
4	3/14	彭明德	芷微 怡娟	Yeast (II)	Observation of mating and sporulation of yeast
5	3/21	彭明德	芷微 怡娟	Yeast (III)	Analysis of yeast budding patterns--calcofluor staining of bud scars
6	3/28	張壯榮	芷微 怡娟	Yeast (IV)	Yeast genomic DNA extraction
7	4/4		芷微 怡娟	X	校際活動週&掃墓節(Tomb sweeping day)
8	4/11	彭明德	芷微 怡娟	Yeast (V)	Immunostaining of yeast actin
9	4/18	王歐力	怡萱	Introduction of C. elegans	1. Picking worms and chunking 2. Neurons observation 3. Generating males by heat shock
10	4/25	王歐力	怡萱	Mutant phenotypes	1.Observing neurons by dye filling 2.Mating behavior 3.Mutant observation 4.Defrosting
11	5/2	王歐力	怡萱	Chemosensory	Chemosensation is important for C. elegans to detect enviromental cues associated with food, danger or other animals. We are observing chemotaxis about salt concentration in wild-type and mutant worms.
12	5/9	王歐力	怡萱	Mitochondria tracking	We use Mitotracker green to stain mitochondria in a worm. We then track and measure the mitochondria speed in the living worm with and without a mutation.
13	5/16	桑自剛	仁傑 竹婷	The basic of Drosophila	Drosophila genetics, virgin collection, setup cross for the following experiments, mapping transgene, polytene chromosome preparation
14	5/23	桑自剛	仁傑 竹婷	Immunohistochemistry	Immunostaining of Drosophila eye disc and larval brain
15	5/30	桑自剛	仁傑 竹婷	Embryogenesis and Cell cycle	Real-time analysis of early embryogenesis and chromosome division
16	6/6			X	端午節(Dragon Boat Festival)
17	6/13	桑自剛	仁傑 竹婷	Immunohistochemistry	Confocal analysis of immunohistochemistry
18	6/20		All TAs		Check out